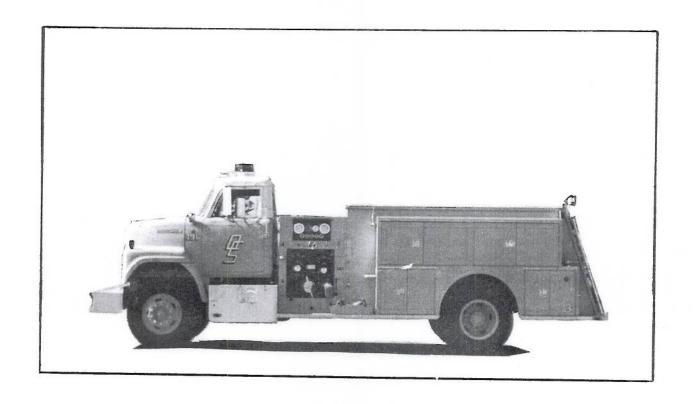
STATE OF CALIFORNIA OFFICE OF EMERGENCY SERVICES FIRE AND RESCUE DIVISION



OPERATORS' MANUAL

FIRE APPARATUS

model 2050A

series no. 166 thru 199

STATISTICAL INFORMATION

ENGINE AND CHASSIS

MAKE: __INTERNATIONAL MODEL: __2050-A FLEETSTAR

YEAR: OES 166-175 1973

OES 176-196 1975 OES 197-199 1976

ENGINE: CATERPILLAR MODEL 1160/225 HP (OES 166-175)

MODEL 3208/210 HP (OES 176-199)

CRANKCASE CAPACITY: 12 Quarts and Filter

ENGINE OIL: S.A.E. #30 - Use oils meeting the following engine service classification:

SC and SD (MS - Motor Severe Oils)

CB (Supplement One Oils)

CC (MIL-L-2104B Specification Oil)

CD or (MIL-L-2104C)

FUEL TYPE: DIESEL #2-D (Minimum Cetane Rating of 40)

FUEL CAPACITY: (OES 166-185) 100 Gallons (Twin 50-gallon Tanks)

(OES 186-199) 98 Gallons (33-gallon left; 65-gallon right)

AIR CLEANER: Two Stage Dry Type (Refer to engine manual for service

instructions.)

COOLING SYSTEM CAPACITY: Approximately 53 Quarts

STEERING: INTEGRAL TYPE HYDRAULIC POWER ASSIST (5 Pints S.A.E. #10)

TRANSMISSION: ALLISON AUTOMATIC MODEL: MT 650

Refer to Allison Automatic Transmission Driver's Handbook for driving tips and service manual for maintenance instructions.

DIFFERENTIAL: S.A.E. #90 GEAR OIL

RATIO: (OES 166-175) 4.78

(OES 176-199) 5.37

(OES-196) <u>6.14</u> Experimental

TIRES: 1000 X 20, 12 PLY PRESSURE: 80 PSI

NOTE: Refer to maintenance manuals for any service required.

STATISTICAL INFORMATION (Continued)

FIRE BODY AND PUMPS

BODY BUILDUP: VAN PELT

MIDSHIP PUMP: HALE MODEL: QSD 100-3

RATING: 1000 GPM - SINGLE STAGE

BOOSTER PUMP: HALE MODEL: CBP-5 (PTO Drive)

RATING: 250 GPM - 150 PSI AT 1300 ENGINE RPM

NOTE: Damage will occur if booster pump is operated in excess

of 1,300 engine RPM!

WATER TANK CAPACITY: 800 Gallons

Refer to Hale Centrifugal Pump Manual for maintenance instructions.

FIRE APPARATUS INVENTORY

OES ENGINES 166 THROUGH 199

- 1 Deluge w/Barrel & Tips
- 1 Log Book
- 1 Credit Card
- 1 Fire Extinguisher 4# or 5#
- 1 First Aid Kit
- 1 Hose, Soft Suction 2-1/2" x 12'
- 5 Cap, 2-1/2" Discharge w/Chain
- 1 Adapter, 1-1/2" IPF to 1-1/2" NSM
- 1 Adpater, 1-1/2" PCF to 1-1/2" NSM
- 1 Adapter, 1-1/2" NSF to 1-1/2" IPM
- 2 Coupling, 2-1/2" DM
- 2 Coupling, 2-1/2" DF 1 Reducer, 2-1/2" NSF to 1-1/2" NSM
- 1 Reducer, 1-1/2" NSF to 1" IPM
- 1 Increaser, 1" IPF to 1-1/2" NSM
- 1 Siamese, 2-1/2"
- 1 Wrench, Adjustable Hydrant
- 4 Wrench, Hose Spanner
- 1 Wrench, Suction Hose Spanner
- 4 Strap, Hose and Ladder
- 1 Lantern, Hand
- 1 Radio, Mobile
- 1 Book, Radio Maintenance Log
- 1 Mallet, Rubber
- 1 Cutter, Bolt
- 1 Shovel
- 1 Bar, Crow
- 1 Hammer, Sledge 8#
- 2 Rope, 100'
- 1 Kit, Reflector (3) Unit
- 2 Nozzle, 2-1/2" Shutoff w/Tips
- 1 Nozzle, 2-1/2" Fog
- 2 Hose, Hard Suction 5" x 10'
- 1 Strainer, 5" Suction Hose
- 1 Adapter, 5" x 4-1/2" DF

- 1 Adapter, 5" x 4" DF
- 1 Adapter, 5" x 2-1/2" DF
- 1 Wye, Gated 2-1/2" NSF x 2-1-1/2" NSM
- 1 Hose, Booster 150'
- 3 Nozzle, 1-1/2" Combination
- 2 Nozzle, 1" Combination
- 2 Belt, Tailboard Safety
- 1 Jack, Hydraulic w/Handle
- 1 Wrench, Lug w/Handle
- 1 Crank, Hose Reel Hand
- 1 Cable, Tow w/Shackle & Pin
- 24 Hose, 2-1/2" NST 50' Length
- 8 Hose, 1-1/2" NST 50' Length
- 8 Hose, 1" IPT 50' Length
- 1 Cover, Hose Bed
- 1 Clamp, Hose
- l Pole, Pike
- 1 Ladder, 14' Roof (Aluminum)
- 1 Ladder, 24' Extension (Aluminum)
- 1 Block, Chock
- 1 Kit, Radef
- 1 Hose, Soft Suction 4" x 12'
- 1 Axe Pick Head w/Mount Brackets & Guard.
- 1 Manual, Chassis & Engine Service
- 1 Manual, Engine (Diesel Only) Serv.
- 1 Manual, Trans. Service (Auto. Only)
- 1 Manual, Pump (Hale)
- 1 Catalog, Parts (Cab & Chassis Only)